Effective Multi-Jurisdictional Strategies



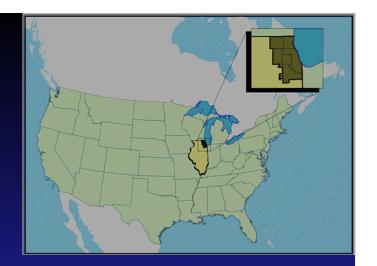
Dick Forbes, Manager
Air Quality Planning Section, Bureau of Air
Illinois Environmental Protection Agency



Chicago NAA Facts

- Severe 1-Hour Ozone NAA:
 - ◆ NOx Waiver
 - ◆ VOC-LAER/Offsets@ 25 TPY
- 6 County + 3 Townships Area
- 4,331 Square Miles
- 8.2 Million Inhabitants
- 25,790 Miles of Roadways
- 157 Million ADVMT
- 1990 CAA Ozone Design Value = 190 ppb
- Ozone Boundary Levels ~ 110 ppb





Air Quality Health Issues



- ◆ 21,000 Asthma Attacks
- ◆ 4,500 Respiratory Emergency Room Visits
- 1,500 Respiratory Hospital Admissions
- ◆ 470 Cardiovascular Admissions
- ◆ 4,500 Premature Deaths



Business and Economic Development Issues

- Greater Permitting Hurdles
- Stricter Pollution Control Technology
- Costs to Offset Ozone Causing Emissions
- Labor Costs & Delays to Meet Stricter Regulations



Chicago Ozone NAA Plan

1990-1996: 15% ROP Plan – VOC = 297 TPD

1997-1999: 9% ROP Plan - VOC = 157 TPD

NOx = 262 TPD

2000-2002: 3% ROP Plan - VOC = 271 TPD

NOx = 137 TPD

2003-2005: 3% ROP Plan - VOC = 307 TPD

NOx = 638 TPD

■ **2006-2007**: 3% ROP Plan – VOC = 353 TPD

NOx = 277 TPD

Note: NOx reductions are from downstate attainment area



The Costs to Comply

	RACT I	1975	\$600/ton
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RACT II	1980	\$720/ton
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Generic ((non-CTG)	1988-1990	\$2,900/ton

■ Future (SCAQMD type) 2007+ \$8-27,000/ton

Note: Cost effectiveness values based on 1990 dollars



REGIONAL DIALOGUE

- Regional Dialogue on Clean Air & Redevelopment was convened in March, 1999
- Launched to develop strategies to improve air quality that support economic development
- Convened by the Metropolitan Mayors Caucus in partnership with Illinois EPA, U.S. EPA, and the Delta Institute, a Chicago-based non-profit organization



REGIONAL DIALOGUE

- The project involved over 300 individuals in the Chicago region representing industry, environmental and civic organizations, labor, government, developers, and academia
- Goal was to develop practical strategies for improving air quality throughout the Chicago region by reducing ozone precursors without compromising economic development:
 - ♦ VOC: 12 125 tons/day
 - \rightarrow NOx: 10 109 tons/day
- Results: Regional Dialogue met for 6 months, established the need for a regional initiative to implement a broad-based policy development effort, recommended that a Steering Committee and 5 workgroups be formed to pursue this effort, identified a list of strategies to promote clean air and economic redevelopment, and achieved a commitment from State and Federal environmental agencies to participate





- Formed Clean Air Counts Campaign in January 2000 as a result of Regional Dialogue
- ► Purpose to seek voluntary reductions in ozoneforming emissions, focusing on area and mobile sources (~ 80% of VOC regional emissions)
- ▲ These sources are difficult to reach thru traditional regulatory means, need local support and present the greatest opportunity for reductions
- CAC offers a regional and voluntary approach to reducing ozone precursors
- Revised reduction goal for VOC = 5 tons/day





- ▲ Two-phased program:
 - Phase I (start-up): 1/1/2000 6/30/2001
 - Phase II (implementation): 7/1/2001 12/31/2002
- ▲ Established Steering Committee, sought financial support, and created 5 campaign strategies:
 - Clean Air Businesses, Industries & Institutions
 - Clean Air Communities
 - Clean Air Development
 - Clean Air Households
 - Clean Air Illinois





Clean Air Partners

- ▲ Delta Institute
- ▲ Illinois EPA
- ▲ U.S. EPA
- Chicago Transit Authority
- City of Chicago
- Metropolitan Mayors Caucus
- Chicagoland Chamber of Commerce
- Center for Neighborhood Technology
- Environmental Law and Policy Center
- Private Sector Businesses





Organizational

Structure

Metropolitan Mayors Caucus

(Governing Body)

www.cleanaircounts.org

Clean Air Counts Steering Committee

The Campaigns

Steering Committee '99-'02

- American Lung Association
- Business Leaders for Transportation
- Chicago Area Transportation Study
- Chicagoland Chamber of Commerce
- Delta Institute
- Illinois Environmental Protection Agency
- Metropolitan Planning Council
- · Regional Transportation Authority
- United States Environmental Protection Agency

- BP Amoco
- Center for Neighborhood Technology
- Chicago Transit Authority
- · City of Chicago
- Environmental Law and Policy Center
- Northeastern Illinois Planning Commission
- Metropolitan Mayors Caucus
- Schlickman & Associates

Business, Industries & Institutions

Chicagoland Chamber of Commerce

Delta Institute

Openlands Project

RTA

Waste Management & Research Center

Communities

Metropolitan Mayors Caucus

Councils of Government in the Chicago Region

City of Chicago

Development

Delta Institute

Local Economic & Employment Development Council

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Households

Center for Neighborhood Technology

Citizens for a Better Environment

Community Energy Cooperative

Delta Institute

Clean Air Illinois

Central Management Services

Dept. of Housing & Urban Development

General Services Administration

IL. Dept. of Corrections

3/13/2003

IL. Dept. of Transportation

IEPA

US EPA



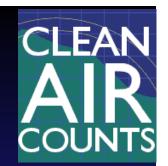
US .



Financial Requirements

- ▲ To achieve full scale implementation, \$9,800,000 over 3 years is required
- ▲ This requires:
 - \$2,500,000 from state and local sources
 - \$7,300,000 from Federal Appropriations
- ▲ So far, \$675,000 appropriation from Congress has been secured; \$1,300,000 from Foundations; in-kind resources from Illinois EPA & US EPA





Charitable Foundations

- Chicago Community Trust
- Gaylord and Dorothy Donnelly Foundation
- Grand Victoria Foundation
- ▲ John D. and Catherine T. MacArthur Foundation

(Total Contribution: \$1.3 Million)



Menu of Options

CLEAN AIR COUNTS

- Native Landscaping
- Gas Can Replacement
- Lawnmower Buyback
- Asphalt Paving Repavement
- ▲ Low VOC Caulks & Adhesives
- Low VOC
 Architectural Paints

- Workplace Transportation Options
- Low VOC Cleaning Products
- Energy Efficient Lights
- ▲ Energy Star Homes
- Energy Star Products



Results To Date

- △ 46 Early Adopters signed on in 2002
- △ 19 Early Adopters Reported in 2002
- ▲ 82 strategies pledged; 41 Reports Submitted; 27 reports quantified
- ▲ Energy Star products, low VOC paints, workplace transportation options, low VOC cleaning products most popular strategies pledged
- △ 180 lawnmowers, 1135 gas cans replaced
- △ 150 acres converted to natural landscaping
- ▲ VOC Reduction Quantified ~ 3.76 tons/day
- △ NOx Reduction Quantified ~ 0.03 tons/day





Lessons Learned

- ▲ Lack of understanding at local level for science of ozone and of federal/state planning process caused confusion and delayed progress
- Message and Sales Pitch must be clear and compelling
- ▲ Long term vision must be developed in order to sustain momentum
- ▲ Need to sign on early adopters and convert them to be recruiters
- △ This kind of initiative needs a home





Lessons Learned - Cont'd

- ▲ Time required to bring businesses, local governments, some industries up to speed on relevant air quality issues is greater than expected
- ▲ Focus on a reasonable number of control options
- ▲ SIP credit criteria cannot be met by all control strategies (quantifiable/enforceable/permanent/surplus)
- → Web reporting works best, but local adopters don't understand recordkeeping/reporting details



OUR GOAL



CLEAN AIR CHICAGO

